

Table 3.1: Dental Intraoral Unit Survey Requirements

	Test	Frequency	Measurements	Tolerance
1	Exposure Reproducibility, Timer Reproducibility, Timer Accuracy, Linearity of mR/mAS, kVp Accuracy, kVp precision	Same as steps 1 - 6 for General Radiographic Unit Survey Requirements. See Table 2.1, Chapter 2.		
2	X-ray Beam Quality	A/P	@ 70 kVp, 1st HVL	HVL of 1.5 mm Al or greater
3.	X-ray field size/cone alignment	A/P	Measure x-ray beam alignment with end of cone	x-ray field size of 2.5 cm Beam aligns with cone
4.	Minimum SSD	A/P	SSD \geq 18 cm SSD < 18 cm	Diameter of x-ray field \leq 7 cm Diameter of x-ray field \leq 6 cm

Abbreviations: A: acceptance, P: periodic, HVL: half value layer, kVp: kilovolt peak, mA: milliamp, mAS: milliamp seconds, SSD: source to skin distance

Table 3.2: Dental Panoramic Unit Survey Requirements

	Test	Frequency	Measurements	Tolerance
1	Exposure Reproducibility	Same as step 1 for General Radiographic Unit Survey Requirements. See Table 2.1, Chapter 2.		
2	Duration of Exposure Cycle	A/P	Measure during exposure reproducibility	\pm 1 Second
3	mAS Linearity	A/P	Measure at 2 mA stations if available	
4.	X-ray Beam Quality	A/P	@ 70 kVp, 1st HVL	HVL of 1.5 mm Al or greater
5	X-ray Beam/Slit Alignment	A/P	View beam slit fluorescence using fluorescent screen or: Expose 2 pieces of intraoral film taped diagonally across beam slit or use ready pack	View of entire film slit Diagonal line across each film from corner to corner Mark slit on film

Abbreviations: A: acceptance, P: periodic, HVL: half value layer, kVp: kilovolt peak, mA: milliamp, mAS: milliamp seconds